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Guidelines for Titration of FIO2 - Adults	Effective: 05/21/2025

# **Guidelines for Adjusting FIO2 - Adults**

### **Purpose**

To guide FIO2 changes on ventilators and non-invasive positive pressure (NIPPV) devices.

# Scope

These guidelines apply to all Ventilators and NIPPV devices used in adults.

#### **Audience**

Respiratory Therapist, Registered Nurses and Licensed Providers

#### Guidelines:

- Select starting FIO2 based on patient assessment and pulse oximetry saturation (SPO2) **or** provider direction.
- Adjust FIO2 in 1%-10% increments.
- Use SPO2, respiratory rate and work of breathing to guide adjustments.
- Wait a minimum of 5 minutes between adjustments.
- If SPO2 falls below target and/or work of breathing increases return to the previous FIO2 setting.

## **Notify Provider for the following:**

- Increases in FIO2  $\geq$  20%
- If target SPO2 is not achieved on 100% FIO2.
- Increasing FIO2 requirement over the course of the shift.